

CLAIMS

[CLAIM 1]

A force-on-pedal sensor comprising:

5 a cylindrical substrate whose one end is closed having:

a hole at a center of its side section; and

a strain resistance element via an insulating layer at its side section;

a coil spring coaxially inserted from an open end of the substrate;

10 an inputting shaft having a stepped part contacted with one end of the coil spring and inserted in the hole in such a manner that a part of the inputting shaft is protruded from the hole; and

a stopper at a position where the inputting shaft is protruded.

15 [CLAIM 2]

The force-on-pedal sensor of claim 1,

wherein a screw section is formed at an outer circumference of a cylindrical section of the substrate.

20 [CLAIM 3]

The force-on-pedal sensor of claim 1,

wherein a first stopper having an outer diameter larger than an inner diameter of a cylindrical section of the substrate is inserted into the stepped part of the inputting shaft, and contacts the coil spring,

25 wherein when the coil spring is contracted to a certain load, the first stopper contacts the substrate, so that no more load is applied.

[CLAIM 4]

The force-on-pedal sensor of claim 1,
wherein the substrate is formed by mechanically coupling the side
section with a cylindrical section, and the strain resistance element and a
5 processing circuit are formed in one piece at the side section.

[CLAIM 5]

A pedal-pressure detecting device comprising:
a brake arm;
10 a link whose one end is linked with the brake arm using a rotatable first
shaft and the other end is linked with a push-rod which transmits force to a
master cylinder; and
an arm, which is installed at the link, for transmitting a load by
contacting the inputting shaft of the force-on-pedal sensor as in any one of
15 claims 1-4.

[CLAIM 6]

The pedal-pressure detecting device of claim 5,
wherein a universal joint section is formed at a load applied point
20 between the arm and the inputting shaft.